Participant Questionnaire

Participant number:	Date: 7/6/23
Location: Brescia, IT	
HRC Study / Algorithms tested: HAMP STRP-PPF	

Study Conducted by: Javed Flowers

Participant link lengths/dimensions: (meters, "spine" is pelvis to shoulder midpoint, "shoulders" is shoulder to shoulder)

Spine	
Neck	
Shoulders	. 3

Left Upper Arm	-34
Left Forearm	.26

Right Upper Arm	135
Right Forearm	126

Participant joint diameter: (meters)

Left Elbow	-085
Left Wrist	-057

Right Elbow	,087					
Right Wrist	2058					

Questions:

- A. How safe did you feel? (0 is not safe at all, 5 is neutral, 10 is very safe)
- B. Do you think the robot hindered your motions during the task? (0 is robot completely prevented your motions, 5 is neutral, 10 is robot did not impede you motion)
- C. Did the robot perform logical motions? (0 is robot motions made no sense to you, 5 is neutral, 10 is robot motions made sense to you)
- D. What is your overall satisfaction with the HRC task? (0 is you would not work in this HRC cell again, 5 is neutral, 10 is you enjoyed working in this cell with the robot)

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For Task 1 (engine parts): (circle your answer to each question)

Task 1, Me	ethod 1:		2 22							(
Question	A: (0 is no	t safe at all,	5 is neutra	l, 10 is very	safe)		4			
0	1	2	3	4	5	6	7	8	9	(10)
Question	B: (0 is rob	ot complete	ely prevent	ed your mo	tions, 5 is r	neutral, 10 i	s robot did	not imped	e you motic	on)
0	1	2	3	4	5	6	7	8	9	10
Question	C: (0 is rob	ot motions	made no se	ense to you	, 5 is neutr	al, 10 is rob	ot motions	made sens	e to you)	
0	1	2	3	4	5		7	8	9	10
Question D	: (0 is you v	vould not wo	rk in this HR	C cell again,	5 is neutral,	. 10 is you en	joyed work	ing in this cel	I with the ro	bot)
0	1	2	3	4	5	6	7	8	9	10

							0.0			
Task 1, M	ethod 2:						· ·			3
Question	A: (0 is not	safe at all,	5 is neutra	, 10 is very	safe)					
О	1	2	3	4	5	6	7	8	9	10
Question	B: (0 is rob	ot complete	ly prevent	ed your mo	otions, 5 is r	neutral, 10 i	s robot did	not imped	e you motic	on)
0	1	2	3	4	5	6	7	8	9	10
Question	C: (0 is rob	ot motions	made no se	ense to you	, 5 is neutra	al, 10 is rob	ot motions	made sens	e to you)	
0	1	2	3	4	5	6	7	8	9	10
Question D): (0 is you v	vould not wo	rk in this HR	C cell again,	5 is neutral,	10 is you en	joyed work	ng in this ce	ll with the ro	bot)
0	1	2	3	4	5	6	7	8	9	10

Task 1, M	ethod 3:						T		-	7
		safe at all,	5 is neutra	, 10 is very	safe)			7.		
0	1	2	3	4	5	6	7	8	9	10
Question	B: (0 is rob	ot complete	ely prevent	ed your mo	tions, 5 is i	neutral, 10 i	is robot did	not imped	e you motic	on)
0	1	2	3	4	5	6	7	8	9	10
Question	C: (0 is rob	ot motions	made no se	ense to you	, 5 is neutr	al, 10 is rob	ot motions	made sens	se to you)	
0	1	2	3	4	5	6	7	8	9	10
Question D	: (0 is you w	ould not wo	rk in this HR	C cell again,	5 is neutral	, 10 is you en	njoyed worki	ng in this ce	ll with the ro	bot)
0	1	2	3	4	5	6	7	8	9	10

Comments:

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For Task 2 (Sharework parts: metal tabs, cylinders, pallets): (circle your answer to each question)

Task 2, M	ethod 1:	Res.								1
Question	A: (0 is not	safe at all,	5 is neutral	, 10 is very	safe)		This ser	- 4		
0	1	2	3	4	5	6	7	8	9	10
Question	B: (0 is rob	ot complete	ely prevent	ed your mo	tions, 5 is r	neutral, 10 i	s robot did	not imped	de you motic	on)
0	1	2	3	4	5	6	7	8	9	(10)
Question	C: (0 is rob	ot motions	made no se	ense to you	, 5 is neutra	al, 10 is rob	ot motions	made sen	se to you)	
0	1	2	3	4	5	6	7	8	9	10
Question D	Question D: (0 is you would not work in this HRC cell again, 5 is neutral, 10 is you enjoyed working in this cell with the robot)									
0	1	2	3	4	5	6	7	8	9	10

Task 2, Mo	ethod 2:	1.40						- V		3
Question	A: (0 is not	safe at all,	5 is neutral	, 10 is very	safe)			_		3
0	1	2	3	4	5	6	7	8	9	10
Question	B: (0 is rob	ot complete	ely prevent	ed your mo	otions, 5 is r	neutral, 10 i	is robot did	not impede	e you motio	on)
0	1	2	3	4	5	6	7	8	9	(10)
Question	C: (0 is rob	ot motions	made no se	ense to you	ı, 5 is neutr	al, 10 is rob	ot motion:	s made sens	e to you)	_
0	1	2	3	4	5	6	7	8	9	10
Question D	: (0 is you w	ould not wo	rk in this HR	C cell again,	5 is neutral,	, 10 is you er	joyed work	ing in this cel	l with the ro	bot)
0	1	2	3	4	5	6	7	8	(9)	10

Task 2, M	ethod 3:				e e					1
Question	A: (0 is not	safe at all,	5 is neutral	, 10 is very	safe)					
0	1	2	3	4	5	6	7	8	9	10
Question	B: (0 is rob	ot complete	ely prevent	ed your mo	otions, 5 is r	neutral, 10	is robot did	not imped	e you motio	on)
О	1	2	3	4	5	6	7	8	9	10
Question	C: (0 is rob	ot motions	made no se	ense to you	, 5 is neutra	al, 10 is rob	ot motions	made sens	se to you)	
0	1	2	3	4	5	6	7	8	9	10
Question D	: (0 is you w	ould not wo	rk in this HR	C cell again,	5 is neutral,	, 10 is you er	njoyed work	ing in this ce	Il with the ro	bot)
0	1	2	3	4	5	6	7	8	9	10

Comments: EXP: 2